

Appendix table 2-64.

International nondefense R&D expenditures and R&D as a percentage of GDP: 1981–98

Year	United States	Japan ^a	Germany ^b	France	United Kingdom	Italy	Canada
Total nondefense R&D expenditures in billions of constant 1992 U.S. dollars ^c							
1981	81.7	NA	22.6	13.2	13.5	6.7	5.1
1982	82.8	37.4	23.4	14.3	NA	7.0	5.5
1983	86.5	40.3	23.8	15.1	13.0	7.4	5.6
1984	94.1	43.3	24.6	16.1	NA	8.0	6.1
1985	100.8	48.0	27.0	16.8	14.5	9.1	6.6
1986	102.2	48.6	27.9	16.9	15.6	9.4	6.9
1987	103.7	52.1	29.9	17.5	16.2	10.3	7.0
1988	108.1	56.1	31.0	18.3	17.1	10.8	7.2
1989	114.0	61.5	32.3	19.7	17.6	11.4	7.3
1990	121.2	66.7	32.5	20.5	18.0	12.4	7.8
1991	128.0	68.2	35.2	21.2	16.6	11.9	7.9
1992	129.5	68.4	35.5	22.3	17.8	11.9	NA
1993	126.4	66.6	34.4	22.0	17.9	10.7	8.6
1994	128.6	65.6	34.4	21.8	18.0	10.3	NA
1995	138.6	72.6	35.4	22.4	17.7	10.4	9.5
1996	147.7	77.1	35.0	22.2	18.0	10.9	NA
1997	157.2	NA	36.3	NA	17.9	11.7	10.1
1998	169.4	NA	NA	NA	NA	NA	10.4
Nondefense R&D expenditures as a percentage of GDP							
1981	1.73	NA	2.34	1.57	1.84	0.85	1.21
1982	1.79	2.21	2.44	1.66	NA	0.89	1.35
1983	1.80	2.34	2.43	1.74	1.69	0.93	1.32
1984	1.83	2.41	2.42	1.82	NA	0.97	1.35
1985	1.89	2.56	2.60	1.87	1.76	1.07	1.40
1986	1.86	2.53	2.61	1.84	1.82	1.08	1.43
1987	1.83	2.60	2.75	1.85	1.79	1.15	1.38
1988	1.84	2.63	2.74	1.85	1.80	1.15	1.34
1989	1.88	2.75	2.75	1.92	1.81	1.18	1.34
1990	1.97	2.83	2.62	1.95	1.84	1.26	1.41
1991	2.11	2.79	2.51	1.98	1.79	1.19	1.48
1992	2.07	2.73	2.39	2.04	1.84	1.15	NA
1993	1.98	2.65	2.34	2.10	1.86	1.09	1.56
1994	1.95	2.60	2.25	2.05	1.84	1.01	NA
1995	2.05	2.73	2.23	2.04	1.78	0.98	1.55
1996	2.11	2.80	2.21	2.03	1.72	1.01	NA
1997	2.16	NA	2.23	NA	1.65	1.07	1.57
1998	2.24	NA	NA	NA	NA	NA	1.57

NA = not available

^aDue to changes in methodology, data on Japanese R&D in 1996 and later years may not be consistent with data in earlier years.^bGerman data before 1991 are for West Germany only.^cConversions of foreign currencies to U.S. dollars are calculated with purchasing power parity exchange rates. Constant 1992 dollars are based on U.S. GDP implicit price deflators. (See appendix tables 2-1 and 2-2.)SOURCES: National Science Foundation, Division of Science Resources Studies (NSF/SRS), *National Patterns of R&D Resources: 1998*, NSF 99-335, by Steven Payson (Arlington, VA: 1999); and Organisation for Economic Co-operation and Development, Main Science and Technology Indicators database (Paris: April 1999).

See figures 2-27 and 2-30 in Volume I.

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